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COMBINED DECLARATION AND PRINCIPAL POWER OF ATTORNEY FOR PATENT APPLICATION

As a below-named inventor, I (we) hereby declare that:

My (our) residence, post office address and citizenship, is (are) as stated below next to my (our) name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SPATIAL-HETERODYNE INTERFEREOMETRY FOR TRANSMISSION (SHIFT) MEASUREMENTS

the specification of which

_____ is attached hereto.

 X was filed on August 26, 2003 as Application No. 10/649,251
and was amended on _____
(If Applicable)

I hereby state that I (we) have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I (we) acknowledge the duty to disclose all information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.				
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES NO
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:				
I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:				
Application Number(s)	Filing Date (MM/DD/YYYY)			
		<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto		

Gray Cary/AU4108297.1
2500940-991510

Attorney Docket No.
UBAT1510

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I hereby claim the benefit under 35 U.S.C. 120 of any United States Application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.		
U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (If applicable)
Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.		

I (we) hereby appoint the following attorneys and/or patent agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

George L. Craig	Registration No. 29,293
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All of: UT-Battelle, LLC
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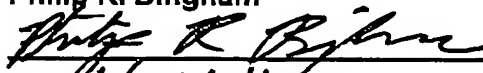
Please direct all correspondence and telephone calls to the individuals identified in the Associate Power of Attorney.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of First Inventor:

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Signature:


11/26/04

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PATENT

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Gregory R. Hanson et al.	Group Art Unit:	Unassigned
Serial No.:	10/649,251	Examiner:	Unassigned
Filed:	August 26, 2003	Atty. Dkt. No.	UBAT1510
For:	SPATIAL-HETERODYNE INTERFEROMETRY FOR TRANSMISSION (SHIFT) MEASUREMENTS		

**ASSOCIATE POWER OF ATTORNEY
FOR PATENT APPLICATION
Pursuant to 37 CFR 1.34**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

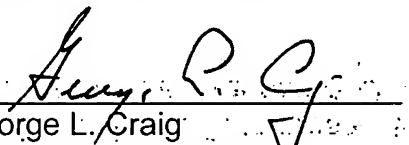
Pursuant to 37 CFR 1.34, I hereby appoint the registered practitioners assigned to **Customer No. 25094** including: Ari G. Akmal, Reg. No. 51,388, John L. Adair, Reg. No. 48,828; Mark L. Berrier, Reg. No. 35,066; John J. Bruckner, Reg. No. 35,816; George R. Meyer, Reg. No. 35,284; Steven R. Sprinkle, Reg. No. 40,825, each an attorney or agent of Gray Cary Ware and Freidenrich, L.L.P. to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. (Assignee's agents are authorized to make corrections to this document).

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Respectfully submitted,

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